

It has been found that Taguchi's robust design approach is quite suitable to tackle surface roughness (metal cutting) problem as discussed in the paper. The optimum combination of turning parameters to achieve minimum surface roughness is 1700 rpm, 0.4 mm and 35 mm/min. Cutting speed has maximum effect followed by feed rate and depth of cut on surface roughness. Figure 3 depicts the significance of the parameters in percentage.

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